

Application No.: 10/086,542

Attorney Docket No.: SALK1790-6

Filing Date: February 28, 2002

(088802-3457)

Response to Office Action (mailed February 24, 2004) faxed July 26, 2004

Page 2 of 12

Amendments to the Claims

Please amend claims 12 and 13 as indicated below in the listing of claims.

Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A transgenic, non-human mammal, wherein said mammal contains at least one FLP recombination target site in the genomic DNA thereof.
2. (Original) A transgenic, non-human mammal according to claim 1, wherein said FLP recombination target site is positioned within at least a portion of one or more gene(s) of interest.
3. (Original) A transgenic, non-human mammal according to claim 1, further comprising a nucleotide sequence encoding, and capable of expressing, in transgenic, non-human mammals, a FLP recombinase.
4. (Original) A transgenic, non-human mammal according to claim 1, further comprising FLP recombinase.
5. (Original) A transgenic, non-human mammal according to claim 1, wherein said mammal is a mouse.
6. (Original) A transgenic, non-human mammal according to claim 1, wherein said mammal is a rat.

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Page 3 of 12

7. (Original) A transgenic, non-human mammal according to claim 1, wherein said mammal is a monkey.

8. (Original) A transgenic, non-human mammal according to claim 1, wherein said mammal is a hamster.

9. (Original) A transgenic, non-human mammal according to claim 2, wherein said gene(s) of interest provide a readily analyzable marker feature to the host system.

10. (Original) A transgenic, non-human mammal according to claim 9, wherein said marker is selected from the group consisting of  $\beta$ -galactosidase, thymidine kinase, tyrosinase, and antibiotic resistance.

11. (Previously presented) A transgenic, non-human mammal according to claim 1, wherein said FLP recombination target site has the sequence:

5' - GAAGTTCCTATTCTCTAGAAAGTATAGGAACCTTC - 3' (SEQ ID NO:3),  
or functional equivalents thereof.

12. (Currently amended) A transgenic, non-human mammal according to claim 2, further comprising an additional DNA fragment, wherein said additional DNA fragment is selected from:

- (a) at least a second portion of said first gene of interest, or
- (b) at least a portion of a second gene of interest;

wherein said additional DNA fragment second-DNA contains at least one FLP recombination target site; and wherein said additional DNA fragment second-DNA, when combined in reading frame with said at least a portion of one or more gene(s) of interest first-DNA, provides a functional gene.

Application No.: 10/086,542 Attorney Docket No.: SALK1790-6  
Filing Date: February 28, 2002 (088802-3457)  
Response to Office Action (mailed February 24, 2004) faxed July 26, 2004  
Page 4 of 12

13. (Currently amended) A transgenic, non-human mammal according to claim 2, further comprising an additional DNA fragment, wherein said additional DNA fragment is selected from:

- (a) at least a second portion of said first gene of interest, or
- (b) at least a portion of a second gene of interest;

wherein said additional DNA fragment ~~second DNA~~ contains at least one FLP recombination target site; and wherein site-specific recombination disrupts the function of said ~~first~~ gene of interest.

14. (Original) A transgenic, non-human mammal according to claim 13, wherein said function is colorimetrically detectable, immunologically detectable or genetically detectable.

15. (Original) A transgenic, non-human mammal according to claim 3, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.

16. (Original) A transgenic, non-human mammal according to claim 4, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.

17. (Original) A transgenic, non-human mammal according to claim 9, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.

18. (Original) A transgenic, non-human mammal according to claim 12, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.

19. (Original) A transgenic, non-human mammal according to claim 13, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.